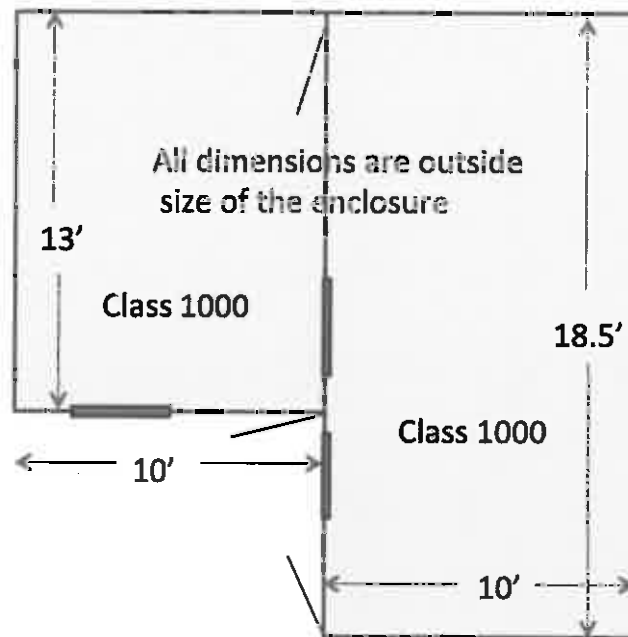


Specifications for the cleanroom enclosure:

1. The layout of the cleanroom enclosure shall be as shown below:



Total cleanroom area: 315 sq ft  
Total wall material: 801 sq ft for 9' ceiling  
Total doors: 3  
Total laser safety windows: 6 (3 on the windows)

## 2. Walls -

Wall panels shall be no less than 9' tall with 3" thick sandwich type construction with ½" vinyl covered gypsum board laminated to both sides of 2" thick expanded polystyrene core. Panel carries a Class A flame spread rating when tested in accordance to ASTM-E-2768.

## 3. Wall System/ Framework

Framing for the enclosure shall be extruded from 6063 aluminum alloy with T6 structural temper. Floor and ceiling track shall be precut and mitered to eliminate need for field cutting.

Corner post shall be no less than 9' tall

Wall Starter shall be no less than 9' tall

## 4. Doors / Standard

There shall be a total of three doors, each with 20ga steel door with laser safety glass. Each door shall be equipped with 1 ½ pair of 4 ½" x 4 ½" ball bearing hinges and a stainless steel ADA compliant lever lockset. The top half of the door shall be glazed with 1/4" tempered safety glass, nominal 24" x 25 ½". Door &

frame shall be painted to match the standard wall colors: Khaki, Grey or White (to be chosen by customer). The door frame shall be 18-gauge steel designed to fit into the structural framework of the wall system.

5. Misc. Door Hardware / Closers

Each of the three doors shall be equipped with

- heavy duty door closer
- brush door sweep
- vinyl door gasket

6. Electrical (Modular) / Standard

The enclosure shall be pre-wired modular electric components to eliminate the need for field wiring except to bring power to the enclosure.

There shall be no less than 14 electrical outlets, each shall be modular quick-tric duplex receptacles, 120V, 20 Amp add circuits (max 6 per box).

7. Electrical (Modular) / Special

The enclosure shall be pre-wired modular electric components to eliminate the need for field wiring except to bring power to the enclosure. There shall be no less than 5 - 2'x4' cleanroom sealed light fixtures, 120 V.

8. Grid Ceiling / Special

The clean room enclosure shall have 2x4 gasketed ceiling grid with tile to accommodate the entire enclosure ~320 sq ft.

9. Framed Openings / Standard

There shall be no less than eight 20" x 20" framed openings.

10. Framing Kits / Standard

There shall be three 2' X 3' framing kits for laser safety glass windows.

11. Miscellaneous / Parts

- There shall be no less than 9 modular 2x4 fan powered HEPA filter, 115V single Phase.
- Sealant for the cleanroom enclosure shall be Dow 732 sealant or equivalent.
- There shall be no less than 8 relief air grilles with dampers for the enclosure.

12. Delivery and installation - the vendor shall deliver and install the enclosure on-site at GSFC. *By March 1, 2014*